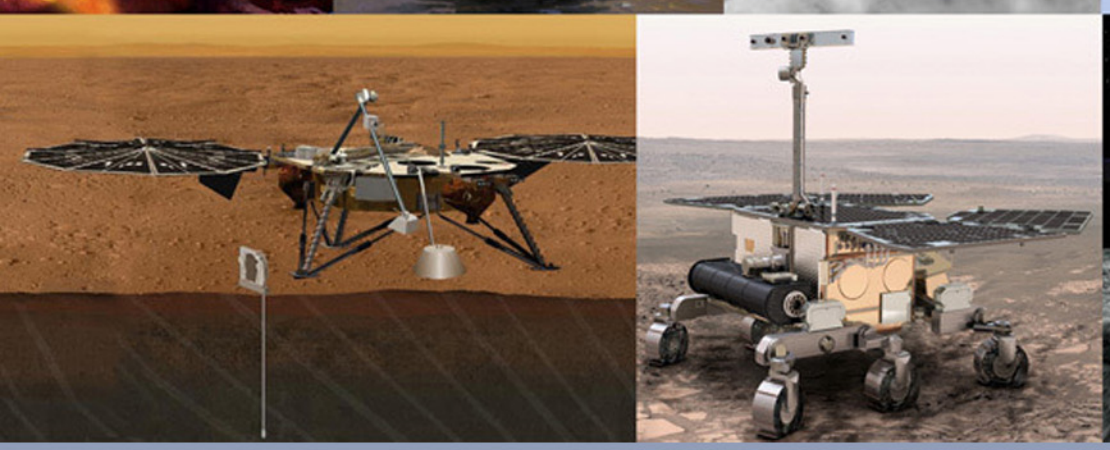
IPM-2012
October 10-12
Greenbelt, Maryland
(near Washington DC)

National Aeronautics and Space Administration

International Workshop on Instrumentation for Planetary Missions



Keynote Speakers:

John Mather
Nobel Laureate, NASA
"Studying our solar system's planets using JWST"

Chris Webster
JPL Planetary Science Instruments Office
"Planetary instruments: past, present and future"

Amy Simon-Miller
NASA/GSFC, Solar System Exploration Division
"Science questions and broad outline of technology needs of the decade 2013-2022"

Objectives

- To build a broad canvas of instrumentation and technology available to 'Decadal Survey' missions and those further out.
- To be a forum of collaboration, exchange and discussions where science questions, and the technology needed to address them, are discussed.

Topics

- Science questions to be addressed in the next decade and beyond
- Reviews of instruments on past missions - lessons learned and vision for what is needed next
- Instrumentation for descent probes (Saturn, Uranus, ...)
- Instrumentation for in-situ analysis missions (Venus in-situ Explorer, Titan, ...)
- Instrumentation for next generation orbiters (Io, TGO/ExoMars, JEO, Enceladus, Trojan Tour and Rendezvous, ESA/JUICE, ...)
- Technology for in-situ analysis and sample return (Lunar, Mars, Comet surface, NEOs, ...)
- Instruments on future Mars landers (ExoMars, Mars Sample Return, ...)
- Imaging, cooling, readout and on-board processing technology for future planetary missions
- Electronics for extreme environments (temperature and radiation)
- Human space flight missions to planetary targets (beyond LEO) with science outcomes (NEO, Mars)

go to
http://ssed.gsfc.nasa.gov/IPM/ for more information